LEADER

New Products

Leader Instruments Corporation

LV5770 Multi-Monitor Your Affordable Test Solution

PICK HIT BroadcastEngineering 2011

3G-SDI & HD/SD-SDI LOUDNESS, LIP SYNC & SURROUND MONITORING & TEST

Our award winning LV5770 Multi-Monitor has just become even more powerful with the addition of brand new Loudness, Lip-sync and Surround Sound Monitoring to our audio option card. This affordable instrument simultaneously monitors two 3G/HD/SD-SDI sources and displays picture, waveform, vector, 5-Bar, CINELITE and status individually or in various screen combinations.

Optional digital and analog audio I/O provides for built-in de-embed and digital to analog audio conversion. Loudness, Lip-sync, surround monitoring and a number of audio centric features make this waveform monitor an ideal audio monitor as well! Eye pattern monitoring and composite input options round out this very affordable test solution.

The LV5770 was the product of choice for the largest sporting event in 2012 in London because of its valuable features, affordable price and unprecedented value.

Picture, Waveform, Vector, Status, Closed Caption, AFD, Data & Vanc Analysis monitor with optional :

- **Eye & Jitter Analysis**
- **Audio I/O With Loudness**
- **Dolby Decode Option**
- **Composite Input Option**

LV7770 Multi- Rasterizer 3G/HD/SD-SDI

RASTERIZER VERSION OF THE LV5770

NEW

Our new LV7770 3G/HD/SD-SDI Rasterizer operates using the same software as our award winning LV5770 providing a 1RU instrument for tight-space applications. Use the LV7770 Rasterizer or the LV5770 with built-in screen for maximum system design flexibility without loss of operations continuity – your operators learn one instrument and know how to use both forms. The LV7770 includes 8 channel AES/EBU inputs/outputs (menu selectable) and de-embeds AES/EBU from the SDI feed allowing you to analyze the audio content and to output AES/EBU to the next stage if desired.

LV7770

LV7770-01 Remote Controller

LV5307 SDI & HDMI Test Monitor

NEW

Your perfect monitoring companion for professional video applications, this new monitor from LEADER features a bright 7” built-In LCD display with IPS LED backlit panel. The screen contents, including waveform, vector, false color and markers can be output via HDMI to a larger monitor. Easy to use controls with settable quick function buttons nicely complement the comprehensive display and menus.

SDI and HDMI inputs can be cross-converted at the same time. Embedded audio is de-embedded and displayed as 16-channel bar icons on the picture. A built-in speaker allows for quick audio review and headphone outputs are provided; A/V audio delay is also user settable and the volume is front panel adjustable.

Picture functions include markers, monochrome, blue-only, red–only and green-only modes; a cross-pulse function is also included. Display color temperature is user-adjustable. Peaking function provides for easy focus setting. RJ-45 control is also included. The instrument is provided with a tilt stand and the AC adaptor is included. Optional rack-mount available.

More New Products

NEW

LV5307 SDI & HDMI Test Monitor

LV5307 Multi-Format 7" Monitor/Rasterizer

Your perfect monitoring companion for professional video applications, this new monitor from LEADER features a bright 7" built-In LCD display with IPS LED backlit panel. The screen contents, including waveform, vector, false color and markers can be output via HDMI to a larger monitor. Easy to use controls with settable quick function buttons nicely complement the comprehensive display and menus.

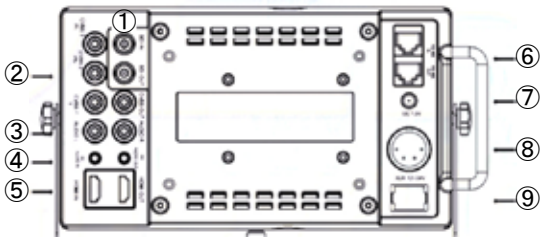
SDI and HDMI inputs can be cross-converted at the same time. Embedded audio is de-embedded and displayed as 16-channel bar icons on the picture. A built-in speaker allows for quick audio review and headphone outputs are provided;A/V audio delay is also user settable and the volume is front panel adjustable.

Picture functions include markers, monochrome, blue-only, red–only and green-only modes; a cross-pulse function is also included. Display color temperature is user-adjustable. Peaking function provides for easy focus setting. RJ-45 control is also included.

The instrument is provided with a tilt stand and the AC adaptor is included. Optional rack-mount available.

FEATURES INCLUDE :

- Accepts 3G/HD/SD-SDI, HDMI & Analog Sources.
- Provides Picture, Inset Waveform, Vector and False Colors display *(test screens for SDI & HDMI sources only).*
- Converts & Outputs HDMI to SDI and SDI to HDMI Simultaneously.
- Built-In XGA IPS LED Backlit Display (1024 x 600) For Superb Picture Representations.
- Settable Color Temperature & User Settable Adjustments.
- HDMI Output Can Be Set To Output The Screen Contents To A Larger Monitor *(Rasterizer Output Uses HDMI Output).*
- DC Powered; 12-18 Vdc; AC Adaptor & Tilt Stand Included.



① SDI IN/OUT
② Component IN
CVES 1, 2, 3 IN
③ AUDIO IN L/R
④ PC AUDIO IN/OUT
⑤ HDMI IN/OUT
⑥ RS-485 IN/OUT
⑦ DC12V IN
⑧ XLR 12-24V IN
⑨ POWER SWITCH

Key Specifications

DISPLAY	
Screen Size	7"
Max, Resolution	1024 x 600
Pixel Pitch	TBD
Brightness	400cd/m²(Typical)
Contrast Ratio	800:1
Aspect Ratio	16:9
Viewing Angle (H/V)	170°/170°
Color Depth	16.7M
INTERFACE	
SDI In/Out	1/1
HDMI In/Out	1/1
Component(Y, Pb, Pr) In(RCA jack)	3
AV (Composite) In/Out(RCA jack)	3/1
RS-485 In/Out	1/1
PC Audio In/Out	1/1
Audio In L/R (16ch De-embedded Audio Selected Output)	1/1
AUDIO	
Built in speaker	2W x 1
DIMENSIONS	
Outline Dimension	8.7" x 5.0" x 1.9"
(W x H x D)	(221mm x 126mm x 48.3mm)
Net Weight	2.02lbs (916.5g)
SDI INPUT SIGNAL FORMAT	
SMPTE 274M	1920 x 1080p / 30,29,97,25,24,23.98sf 1920 x 1080i / 60,59.94,50
SMPTE 296M	1280 x 720p / 60,59.94,50
SMPTE 260M	1280 x 1035i / 60,59.94,50
ITU-R BT.656	720 x 576i / 50
GENERAL	
Transmitter - IR Remote Control	TBD
Power - Electrical Ratings	DC 12V / XLR-4p
- consumption	12V 1.2A / 14.4W
Warranty - Parts/Labor	2 Year / 3 Months
- MTBF(Approx.)	33,000 Hours
Operating Temperature	0-40°C(32-104F°)

NEW

LV5837/5838 Audio, Loudness & Lip-sync

Two new audio monitors to satisfy your Surround Sound and Loudness needs! The new LV5838 and LV5837 Audio Monitors are bound to become show favorites. Designed to rack-mount next to all half-rack Leader test monitors, the LV5837/LV5838 extend the use and range of current instruments in your facility and bring you in line with the latest audio monitoring requirements (LV5838 picture on left). The LV5838 accepts and de-embeds audio from SDI sources including 3G, HD and SD-SDI. The LV5837 accepts AES/EBU only. Both instruments accept 16 channels of discreet AES/EBU. Dolby compliance is an option. Provides Lissajous, surround display, level meter, audio status, loudness measurement and embedded audio metadata displays.

Empower Creativity - Visualize Your Work

On-Camera, In The Field or In The Rack
Powerful and Affordable HD/SD Pro-Video Test

LV5330 Portable Configuration

Two LV5330s rack-mounted side-by-side

Screen Capture

All LEADER SDI monitors support screen capture. Capture any screen in bitmap format (1024 x 768) or capture error logs and data dumps in text format. Captured files are stored on a USB flash drive and can easily be accessed via PC for communication and documentation purposes.

In addition, most screens, once captured, can be compared to live scenes – the instrument overlays the frozen picture (or waveform/vector) on live making camera matching a snap.

The LV5330 and LV7330 are not just measurement tools – they seamlessly integrate into your workflow and allow you to better understand the material you capture while improving communication throughout the production process.

LV5330 & LV7330 Sample Screens

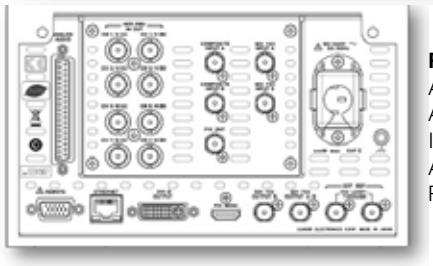
Flexible & Affordable Excellence

Multi-SDI Monitor with
built-in LCD Panel & DVI-I Output

PICK HIT
BroadcastEngineering
2011

LV5770 Multi-Monitor

3G/HD/SD-SDI/2K/Dual Link/ 3D/Loudness/lip-sync/AFD

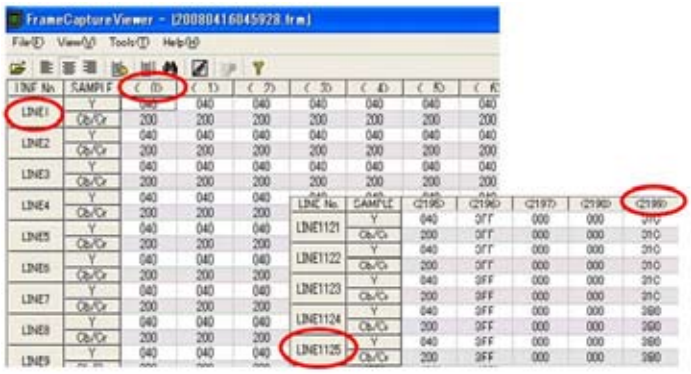


Rear Panel Shown With : Analog Audio Option, Digital Audio Option & Composite Inputs Option. Also Available : 3G/HD/SD Eye Pattern Option

- Accepts Two 3G/HD/SD-SDI Sources And Provides Picture, Waveform, Vector, CINELITE II, 5-Bar and Status Displays Individually and In Various Screen Combinations.
- Supports Dual Link & 3G Level A & B Operation.
- Built-In XGA Display (1024 x 768) For Superb, Crisp Waveforms And Picture Representations.
- Autonomous Monitoring & Error Detection; Alarm For Audio Silence/Video Freeze & Video Black.
- ANC Data Analysis, Settable Error Levels With Monitoring, Alarms And Error Logs With Time Code.
- Platform Can Monitor And Display Two Sources At The Same Time In Two or Four Split Screen Displays
- Audio Option (OP41 or OP43) Supports Loudness, Lip Sync And A/V Delay Measurements In Addition To Providing Lissajous And Bar Graph Displays.
- Accepts And Displays On Picture And Data For Closed Caption (Supports both EIA-608-B & EIA-708 systems).
- Dolby metadata and Dolby E guard band (OP43D or OP41D)
- Active format Description (AFD)
- 3D assist
- Gamma LUT
- USB Connector Allows The Use Of A flash drive For Storing Captured Screens, Presets And Software / Firmware Updates.
- New “Frame Capture” capabilities. Now, you can analyze errors detected through this function, such as SDI (TRS, Line Number, CRC, EDH, etc), ancillary data (Parity and Checksum), embedded audio (BCH, DBN, Parity and Inhibit Line errors), or video errors (Gamut, Composite gamut, Level errors).
- DVI Rasterized Output Mirrors Built-In Screen.
- HDMI Program Output Of The Selected Source Is Provided.
- Supports Options Including Physical Layer Testing with Eye Pattern, Digital & Analog Audio and Composite Inputs.
- Ethernet Connectivity Allows For Remote Control Over The Web; Supports TELNET, FTP, HTTP & SNMP.
- Universal AC Power Supply Allows For World-Wide Use.

Options Description :

- Eye Pattern & Jitter Measurements Option (OP09): Provides eye pattern & jitter measurements for 3G, HD/SD-SDI feeds. SMPTE Recommended Filters and Auto-measurement are provided.
- Digital Audio Options (OP41 or OP43): Provides 16 channels of AES/EBU inputs/outputs. Include Loudness Monitoring and Lip Sync Measurements. Permits analysis and output of embedded audio.
- Digital Audio with Dolby Options (OP41D or OP43D): Adds Dolby capabilities to OP41 or OP43 respectively.
- Analog Audio Option (OP42): Provides 8 channels of analog audio (In or Out). The selected digital audio can be converted and output as analog audio.
- Tri-level Sync Composite Option (OP03A): Provides two Composite inputs and Switched Monitor Output. It also displays tri-level sync waveform signal.



Frame Capture Viewer for Windows

Option 43 vs Option 41	LV5770-OP43	LV5770-OP41
Loudness Log Data function	yes	yes
True Peak Meters	yes	yes
Loudness Log Chart	yes	yes
True Peak Meters and Loudness Log Chart simultaneous display	yes	no
Two Audio Loudness simultaneous display (Bilingual Loudness)	yes	no
Display Channel simultaneously	16ch FUTURE	8ch

Flexible & Affordable Excellence

NEW

LV7770 Multi- Rasterizer

3G/HD/SD-SDI/2K/Dual Link/ 3D/Loudness/LIP SYNC/AFD

LV7770-01

Remote Controller for LV7770/LV5770

- Accepts Two 3G/HD/SD-SDI Sources And Provides Picture, Waveform, Vector, Audio, CINELITE II, 5-Bar and Status Displays Individually and In Various Screen Combinations.
- Supports Dual Link & 3G Level A & B Operation.
- Autonomous Monitoring & Error Detection; Alarm For Audio Silence/Video Freeze & Video Black.
- Data Analysis, Settable Error Levels With Monitoring, Alarms And Error Logs With Time Code.
- Platform Can Monitor And Display Two Sources At The Same Time In Two or Four Split Screen Displays.
- As the Standard, Digital Audio Supports Full Loudness, Lip Sync And A/V Delay Measurements In Addition To Providing Lissajous And Bar Graph Displays.
- Accepts And Displays On Picture And Data For Closed Caption (Supports both EIA-608-B & EIA-708 systems).
- USB Connector Allows The Use Of A flash drive For Storing Captured Screens, Presets And Software / Firmware Updates.
- DVI-D Rasterized Output displays to External LCD Monitor.
- HDMI Program Output Of The Selected Source Is Provided.
- Supports Options Including Physical Layer Testing with Eye Pattern, Digital(in Additional 8ch) & Analog Audio and Composite Inputs.
- Ethernet Connectivity Allows For Remote Control Over The Web; Supports TELNET, FTP, HTTP & SNMP.
- Universal AC Power Supply Allows For World-Wide Use.

Options Description :

- Eye Pattern & Jitter Measurement Capabilities (LV5770 OP09) For Evaluating The Condition Of SDI Feeds; SMPTE Recommended Filters And Auto-Measurement Is Provided.
- Additional 8 Channel Digital Audio Capabilities (LV7770 OP70) Provide For Additional 8 Channels Of AES/EBU I/O (In or Out: Menu Selectable).
- Analog Audio Capabilities (LV5770 OP42) Provide For 8 Channels Of Analog Audio (In or Out). The Selected Digital Audio Can Be Converted And Output As Analog Audio.
- Dolby Digital Support And Dolby Metadata Analysis Is Available As LV5770 Option Dolby.
- Two Composite Inputs (LV5770 OP03A) With Switched Monitor Output Provide Picture, Waveform & Vector Test Screens For NTSC & PAL Composite Systems. And Accepts Analog Tri-Level sync & Black Burst Signals for Waveform display.

AVAILABLE OPTIONS :

Model LV7770E : Provides Eye & Jitter Measurements For 3G/HD/SD-SDI with LV7770

Eye Pattern Option (LV5770-OP09) : *Provides Eye & Jitter Measurements For 3G/HD/SD-SDI.*

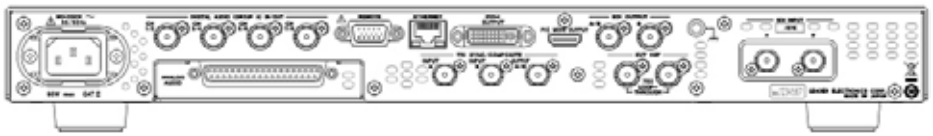
8 Channel Digital Audio Adapter Option (LV7770-OP70) : *Provides Additional 8 Channels of AES/EBU I/O. Outputs Embedded Audio As Discreet AES/EBU.*

Dolby Option : Adds Dolby E/AC3 Capabilities.

Analog Audio Option (LV5770-OP42) : *Provides 8 Channels of Analog Audio I/O. Selected Digital Audio (Discreet or Embedded) Is Converted To Analog Audio.*

Composite Inputs Option (LV5770-OP03A) : *Provides Two Composite Inputs & Switched Monitor Output.*

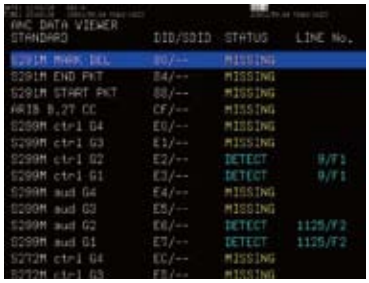
Rear Panel Shown With LV7770E (EYE/JITTER) + LV5770-OP42 (Analog Audio) + LV5770-OP03A (Analog Composite)



Loudness display

Lip-Sync display

Dolby Metadata



ANC Data Viewer

One Great Solution - Two Popular Forms

LV5800 Multi-SDI Monitor & LV7800 Rasterizer

HD/SD-SDI/2K/Dual Link/Loudness/Lip-sync/AFD

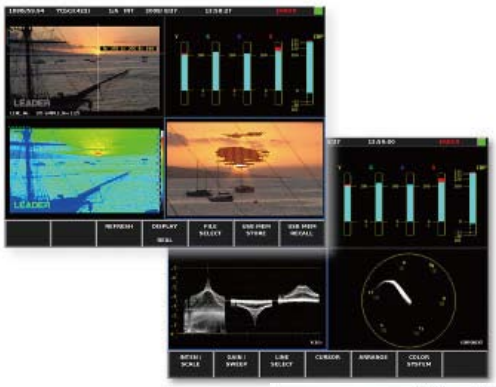
LV5800 HD/SD Multi-SDI Monitor with built-in LCD Panel & DVI-I Output

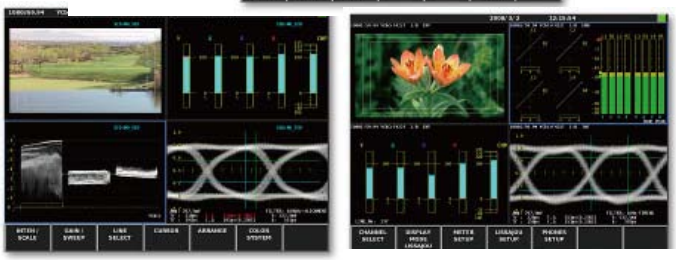
LV7800 HD/SD SDI Rasterizer with DVI-I Output
(LCD Monitor Sold Separately)

- LV7800 Rasterizer & LV5800 Monitor Accept The Same Options And Work On The Same Menu Structure.
- Platform Accepts Up To 4 Signal Input Options And Up To 2 Output Options; Configure Your Test System To Fit Your Specific Needs. Options work in either platform.
- Built-In XGA Display (1024 x 768) For Superb, Crisp Waveforms And Picture Representations (LV5800 only).
- Base System Includes HD/SD-SDI Input Option & DVI-I Output.
- Auto-Detects HD-SDI & SD-SDI Formats; Dual Link, 2K
- Handles 4:2:2 And 4:4:4 Y, Cb, Cr And R,G,B; accommodates both 10 and 12 bit systems.
- Provides Waveform, Vector, 5-Bar, Picture, Audio, Data And Status Displays In Various Combinations
- Simultaneous Monitoring Of All Available Inputs (up to 4 simultaneous; max. 8 inputs possible).
- ANC Data Analysis, Settable Error Levels With Monitoring, Alarms And Error Logs With Time Code.
- Audio Option (OP40A) Supports Loudness, Lip-sync And A/V Delay Measurements In Addition To Providing Lissajous And Bar Graph Displays. 16 Channel Version Also Available.
- Accepts And Displays On Picture And Data For Closed Caption (Supports both EIA-608-B & EIA-708 systems).
- Dolby metadata and Dolby E guard band (OP40D)
- Active Format Description (AFD)
- Autonomous Monitoring & Error Detection; Alarm For Audio Silence/Video Freeze & Video Black.
- USB Connector Allows The Use Of A flash drive For Storing Captured Screens, Presets And Software / Firmware Updates, Error Logs, etc.
- Supports Options Including Data Analysis, Physical Layer Testing with Eye Pattern And Can Be Updated As Needed.
- Ethernet Connectivity Allows For Remote Control Over The Web; Supports TELNET, FTP and SNMP.
- Remote Controller Available (LV7800-01).
- Universal AC Power Supply Allows For World-Wide Use.

AVAILABLE OPTIONS :

LV5800-OP01A	HD/SD-SDI Input
LV5800-OP02	Eye Pattern
LV5800-OP03A	Composite Input
LV5800-OP04	DVB-ASI Input
LV5800-OP06	3G-SDI Input
LV5800-OP07	3G/HD/SD-SDI Eye Pattern
LV5800-OP40A	AES/EBU Input/Output
LV5800-OP40D	Adds Dolby E/AC3 Support
CINELITE II	On-Picture Measurements & Color Encoded Luminance (False Colors) Display.
LV7800-01	Remote Controller for LV7800/5800





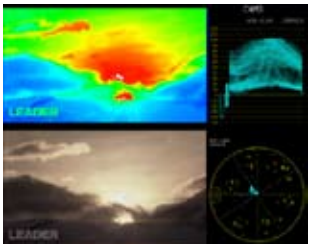
4-channel HD/SD-SDI Monitor with 17" Display & 8.5" Display

LV5980 Shown with Optional Tabletop Stand.

LV5381 4-channel SDI monitor

LV5980 17" 4-channel HD/SD-SDI Monitor
LV5381 8.5" 4-channel HD/SD-SDI Monitor
Now with 3D Assist LV 5381 is optional

These instruments accept 4 HD/SD-SDI inputs and provide full test and measurement capabilities on an 8.5" or 17" monitor. Full screen and combination displays of picture, waveform, vector, audio and status can be seen in various combinations. They can be rack-mounted or used as a bench/table top instrument. Some of the standard features on the LV5980, such as the Dual Link & 2K format support, histogram and 3D-Assist, are optional on the LV5381.

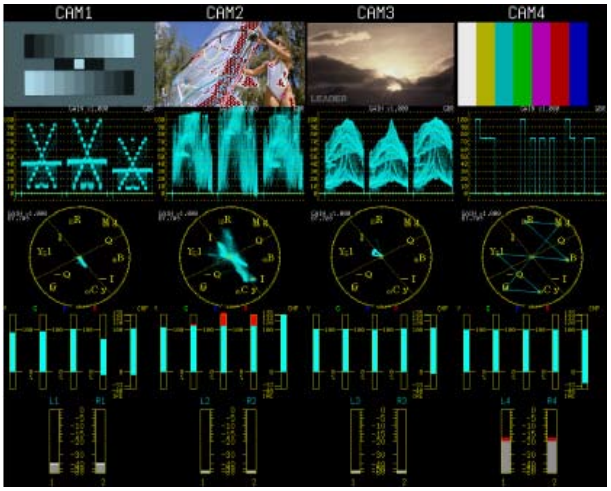


LV5980/LV5381 Features :

- Simultaneously Monitors 4 HD/SD-SDI Sources
- Accepts Dual Link & 2K Formats (option for LV5381)
- Displays Picture, CINELITE, CINEZONE, Waveform, Vector, 5-Bar, Audio and Status In Various Combinations.
- Supports Histogram and 3D-Assist (option for LV5381)
- With Superb, Crisp Waveforms And Picture Representations (XGA 1024 x 768)
- Time-Code Referenced Error Logs Facilitate Material Q/A And Improve Work Flows. User Settable Error Levels & Alarms Facilitate Worry-Free Monitoring.
- Embedded Audio Is Displayed; Lissajous & Bars
- Pictures And Waveform Representations Can Be Captured, Reviewed And Compared To Live.
- User customized layout.

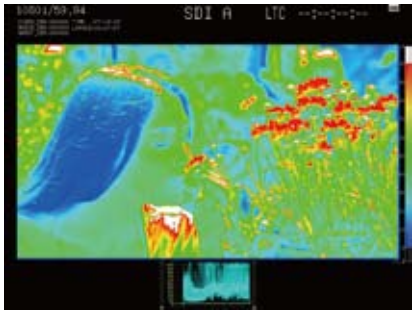
CINELITE RGB Level Display

CINELITE Luminance Level Display

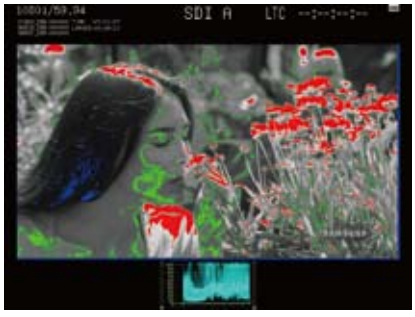


4CH Parade Display with PIC/WFM/VEC/5BAR/Audio

CINELITE F-STOP Display

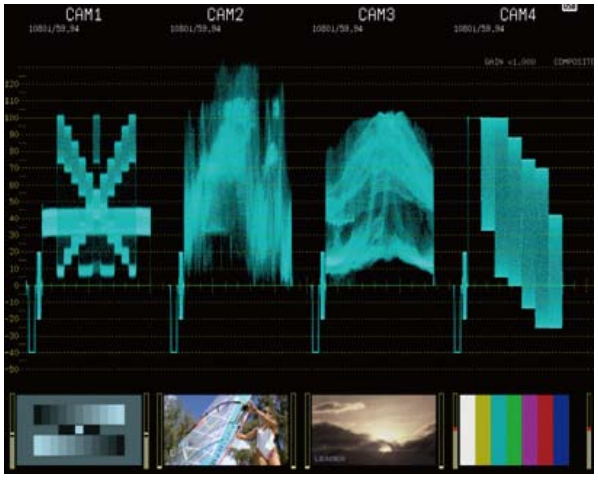


CINEZONE Display



CINELITE Search Function

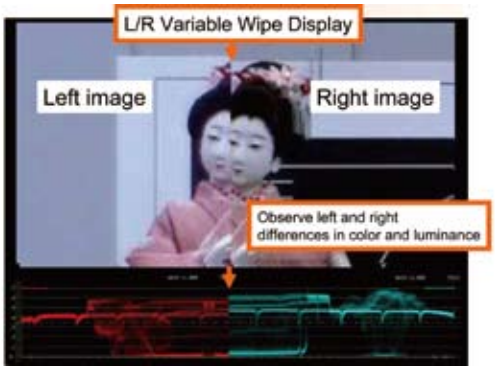
On-Picture Gamut Display



Sample LV5980 Screens

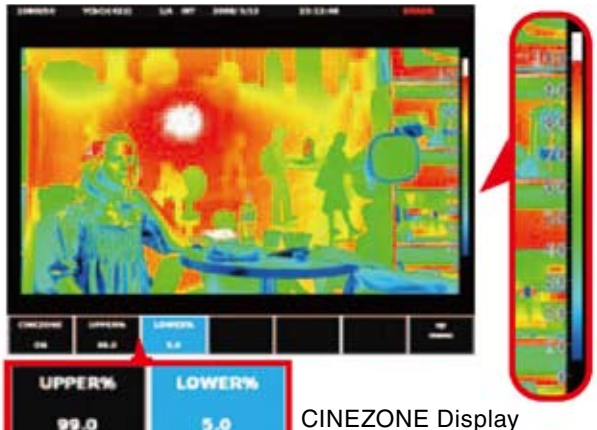
One Great Solution - Two Popular Forms

Rear Panel Of LV7380



Left / Right wipe display

Normal Display



CINEZONE Display

LV7380 Multi-SDI Rasterizer

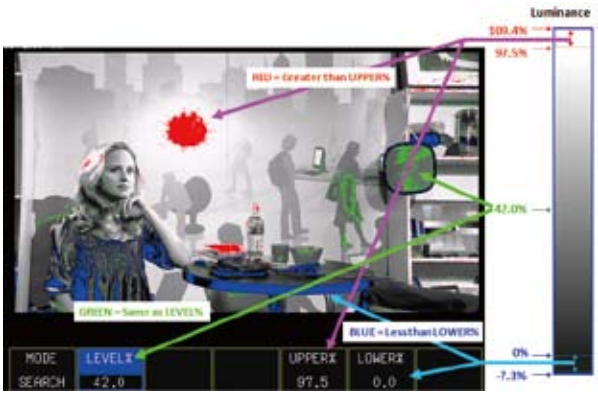
Now With 3D-Assist!

The instrument accepts and simultaneously displays 2 HD/SD-SDI inputs and can display closed captions [EIA608 & EIA608(708)]. Picture, waveform, vector, 5-bar, audio, status as well as CINELITE and CINEZONE representations can be displayed individually or in several screen combinations. AES/EBU audio inputs or outputs (menu selectable – 8 ch) are provided. USB drive connectivity allows you to capture pictures for documentation purposes, personalize presets and perform software updates. Eye pattern is available as an option.

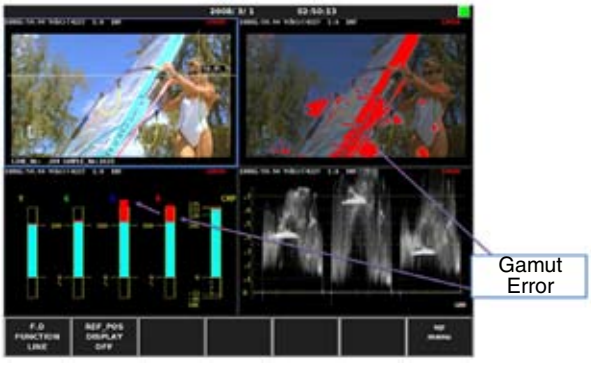
On-Picture measurements as well as true-color and false-color displays allow unprecedented understanding over picture levels and improve collaborative work between creative and technical personnel. Measurements are provided in a variety of flavors to suit each industry discipline and displays can be captured for reporting purposes. Error log and data dump text files can easily be exported.

The LV7380 provides a DVI-I output for connection to your monitor. Options include an Eye Pattern module, Visual Features and Dual Link operation. Now the instrument also optionally supports 3D production requirements.

NOTE : The LV5380 (right hand page) is similar in features to the LV7380. The LV5380 adds an 8 inch TFT LCD display but does not offer the optional eye pattern.



CineSearch You can monitor 3 exposure zones



5BAR On-Picture Display of Gamut Error

LV5380 Multi-SDI Monitor with 8.5" Display
LV5382 Multi-SDI Monitor with HMDI Input & Output

Now With 3D-Assist Features & Disparity Measurements

Designed to satisfy the needs of both creative and technical talent, the LV5380/LV5382 provide information in a variety of easy to use and easy to understand displays.
Various multi-display combinations allow for complete and easy monitoring while full-screen presentations provide a wealth of information and enable detailed review of the material.
Picture, waveform, vector, 5-bar, audio, status and other optional displays (CINELITE and CINEZONE) provide all of the features needed in the field and in the rack. USB drive connectivity allows you to capture screen shots for documentation purposes, personalize presets and perform software updates.

HDMI Input / Output

LV5380 & LV5382 8.5 Inch Display Test Monitors

LV7380/LV5380/LV5382 Key Features

- Simultaneously Monitors 2 HD/SD-SDI, dual Link, 2K, Sources and Displays Picture, Waveform, Vector, 5-Bar, Audio and Status Displays In Various Combinations.
- Provides Sophisticated 3D-Assist Features Enabling 3D Tig Setup & Post Production Adjustments.(option for LV7380)
- Built-In, Large (8.4 inch) TFT-LCD XGA Display (LV5380 Only) or HDMI Input & Output (LV5382 only) DVI-I Output (LV7380 Only).
- XGA (1024 x 768) Output For Superb, Crisp Waveforms And Picture Representations.
- Effortlessly Monitors R,G,B Levels & Composite Gamut With Innovative 5-Bar Display.
- On-Picture Gamut Indication And Time-Code Referenced Error Logs Facilitate Material Q/A And Improve Work Flows.
- User Settable Error Levels & Alarms Facilitate Worry-Free Monitoring.
- Embedded Audio Is Displayed And 2 Channels Are Fed To A Headphone Monitoring Output.
- Supports Closed Captions EIA608 & 608(708) (LV7380 only)
- User customized layout (except LV7380)
- Pictures And Waveform Representations Can Be Captured, Reviewed And Compared To Live.
- 8-Channel AES/EBU Inputs or Outputs (Menu Selectable) Are Provided On The LV7380 Only.
- USB Connector Allows The Use Of A flash drive For Storing Captured Screens, Presets And Software / Firmware Updates.
- Supports CINELITE On-Picture Evaluation and CINEZONE (false colors) Display. (option for LV5380)
- Various Display Adjustments Facilitate Monitor Matching Within A Production Or Studio Environment.
- 30 Presets Permit Quick Access To Setups; USB Storage Of Presets Allows Each User To Personalize The Instrument.
- Accepts Black-Burst As Well As Tri-Level Sync For External Reference And Facilitates System Timing.
- Rackmounts In A Half-Rack Wide By 4 Rack High Space (LV5380 & LV5382) or 1 Rack High By Full Rack Wide (LV7380).
- 10 – 18 Vdc Operation (XLR); AC Adaptor Included.
- Eye Pattern Option Available (LV7380 Only)
- Battery Attachment Plate For The LV5380 and the LV5382 is Optional.

3D ASSIST

3D Display mode
- Anaglyph color
- Anaglyph monochrome
- Convergence

3D Display with grid
- Horizontal / Vertical

3D Display measurement
- Far / Near

Waveform
- L/R Twin waveform
- L/R Overlay
- L/R Wipe

Vector scope
- L/R Overlay

Histogram
- YRGB
- Mix
- Y only

Reserve mode

Phase measurement (LV5380 only)

LR-2751-IU Rackmount (sold separately) shown with 2 LV5380s side by side. For a blank panel, order LC2129-U.

One Great Solution - Two Popular Forms

LV7330 Rasterizer and LV5330 Portable SDI Monitor

LV7330 HD/SD-SDI Rasterizer with DVI-I Output
(LCD Monitor Sold Separately)

LV5330 On-Camera HD/SD-SDI
Monitor with built-in LCD Panel (1024 x 768 LCD TFT)

Equipped with the latest innovations in pro-video monitoring and test, the LV5330 and LV7330 represent a revolutionary solution for production and studio professionals. The instruments were developed specifically to address the needs of both creative and technical talent, providing information in a variety of easy to use and easy to understand displays.

On-Picture measurements as well as true-color and false-color displays allow unprecedented understanding over picture levels and improve collaborative work between creative and technical personnel while providing the direction needed for the post production process.

Various multi-display combinations allow for complete and easy monitoring while full-screen presentations provide a wealth of information and enable detailed review of the material.

Picture, waveform, vector, 5-bar, audio, status as well as CINELITE and CINEZONE displays provide all of the features needed in the field and in the rack. USB drive connectivity allows you to capture pictures for documentation purposes, personalize presets and perform software updates.

The LV7330 provides a DVI-I output for connection to your monitor. The LV5330 has a built-in display but no DVI output. Both instruments operate using similar software, menu structure and specifications, The LV7330 adds analog audio input capabilities, expanded audio monitoring features and the ability to display Vector and 5-Bar representations on its quad display.

Screen picture on the left depicts **LV5330** multi-display function.

LV7330 rear panel

LV7330 & LV5330 Key Features

- Monitors 2 HD/SD-SDI Sources And Displays Picture, CINELITE, CINEZONE, Waveform, Vector, 5-Bar, Audio and Status Displays In Various Combinations.
- Built-In, 6.5 inch TFT-LCD XGA Display (1024 x 768) For Superb, Crisp Waveforms And Picture Representations.
- CINELITE On-Picture Measurements, CINEZONE false color displays and peaking function facilitate quick camera focus and exposure setups.
- Effortlessly Monitors R,G,B Levels & Composite Gamut With Innovative 5-Bar Display.
- Time-Code Referenced Gamut Error Logs Facilitate Material Q/A And Improve Work Flows.
- User Settable Error Levels & Alarms Facilitate Worry-Free Monitoring.
- Embedded Audio Is Displayed And 2 Audio Channels (User Selectable) Are Fed To A Headphone Monitoring Output.
- Supports Closed Caption EIA608 & EIA608(708).
- Pictures And Waveform Representations Can Be Captured, Reviewed And Compared To Live.
- USB Connector Allows The Use Of A flash drive For Storing Captured Screens, Presets And Software / Firmware Updates.
- Various Display Adjustments Facilitate Monitor Matching Within A Production Or Studio Environment.
- 30 Presets Permit Quick Access To Setups; USB Storage Of Presets Allows Each User To Personalize The Instrument.
- Provides HD/SD-SDI Switched Output Of The Selected Source.
- Accepts Black-Burst As Well As Tri-Level Sync For External Reference And Facilitates System Timing.
- Rack mounts in 0.5 RU wide x 3 RU high space.
- Mounts on tripod (top and bottom mounts).
- Lightweight & Compact; 2.9 lbs, 8.5(W) x 5.5(H) x 2.6(D) inches.
- 10 – 18 Vdc Operation (XLR); AC Adaptor included.
- Battery Attachment Plate Is Optional.
- Ethernet connectivity allows for remote control over the web.

LV5838 Audio Monitor w.16 ch of AES/EBU Input & Output and de-embed SDI source
LV5837 Audio Monitor w.16 ch of AES/EBU Input

LV5838 is shown.

Features

- Accepts 16 channels of AES/EBU signal inputs
- Accepts and de-embeds audio from SDI sources including 3G, HD and SD-SDI. (LV5838 only)
- Accepts LTC input for the Time Code display (LV5838 only)
- Supports LPCM/DOLBY E/DOLBY DIGITAL/DOLBY DIGITAL Plus
- Supports Loudness (ATSC A/85,EBU R128, ARIB), Loudness trend chart and log function, audio level meters, surround sound and Lissajous
- Supports dBFS/Nordic/BBC/DIN audio scale standard
- Head phone Output
- DVI-D Output (LV5838 only)
- Lissajous and phase measurement between any two channels
- Measure external AES/EBU audio signal amplitude and synchronization
- LV5838-01 remote controller option
- LV5838-02 simple loudness remote controller option
- Dolby option

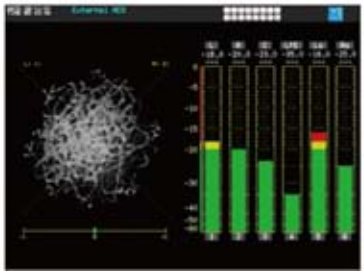
Surround Sound Display

AES/EBU Sync and Amplitude Measurement

Loudness VU Meter

Loudness Meters and Chart Display

Loudness Values and Chart Display


Lissajous and Level Meters Display

16 channels Audio Display

Professional Video Generators

LT443D Modular Sync & Pattern Video Generator

Leader's most popular generator package, the LT443D Mainframe, is a modular generator allowing you to select the perfect configuration for your system. Up to 4 modules can be installed from the selection shown below.

LT443D-HD (HD-SDI) MODULE

The LT443D-HD (HD-SDI Module) can generate 14 formats HD-SDI when used with the mainframe. Available functions include, Logo and ID Character display, embedded audio, simple motion of sixteen test patterns or natural picture. Natural picture display is available as Option70.

LT443D-HDB GENERATOR MODULE

LT443D-HDB Generator has all of the features and functions of the LT443D-HD high definition multiformat generator plus two standard HD digital black outputs.

LT443D-SD (SD-SDI) MODULE

The module can generate 525/625 line format for 4:2:2 component signal SDI outputs with the mainframe. Logo & ID Character display function, simple motion of test patterns or picture can be displayed, embedded audio & natural picture display (Option70).

LT443D-SDB GENERATOR

LT443D-SDB Generator has all of the features and functions of the LT443D-SD standard definition multiformat generator plus two standard SD digital black outputs.

LT443D-GLA GENLOCK MODULE

The LT443D-GLA Genlock Module has an external reference loop through and a 3-system independent black signal generator. External analog reference inputs can be NTSC/PAL black burst, 14 formats of HDTV tri-level sync or 525p/625p sync. It can also accept black burst with a 10 field ID as per SMPTE 318M. Output sync signals can be generated in 3-systems, as above, with independent timing. Both genlock and black sync timing have a 5 frame settable range for NTSC/PAL black burst and HDTV analog tri-level sync signal inputs.

LT443D-BL ANALOG BLACK MODULE

The LT443D-BL Analog Black Module can generate 14 formats of HDTV analog tri-level sync, 525p/625p analog sync and NTSC/ PAL black burst signals. : It consists of 3 independent systems, each with 2 outputs, to provide simultaneous multiformat black sync signals. Each system can be assigned an output format capable of independent output timing. Also, it accepts a black signal with a 10 field ID conforming to SMPTE 318M.

LT443D-AA ANALOG AUDIO MODULE

The LT443D-AA Analog Audio Module fits into the LT443D main frame and generates analog audio test tones. Two 600 Ohm balanced outputs are provided (each on an XLR-3P connector.) Output level and frequency can be independently set for each output. Audio level can be swung from -40 to 4dBm and it is settable in 1dBm steps. Test tones can be set from 50 Hz to 20KHz (30 fixed steps) and silence.

LT443D-CS ANALOG COMPOSITE MODULE

The LT443D-CS Analog Composite Module adds the NTSC/PAL analog composite signal output. Various functions (e.g., ID character, simple motion pictures, natural picture pattern *1)

*1: The Option LT443D-OP70 is installed in the mainframe.

LT443D-DA DIGITAL AUDIO MODULE

The LT443D-DA Digital Audio Module fits into the LT443D main frame and generates digital audio test signals. 4 pairs of AES/EBU audio signals are provided for a total of 8 channels; each pair is output onto a 75 Ohm BNC. Output level, frequency and audio click can be independently set for each output. Digital audio level can be swung from -60 to 0 dBFS and it is settable in 1dB steps. Test tones can be set from 50Hz to 20KHz (30 fixed steps) and silence. Sampling frequency is fixed at 48KHz and it is synced to the video signal from the LT443D; audio to video timing can be varied. 20 and 24 bit resolutions are supported. The module also provides a word clock output, as well, a separate output (1 BNC, 2 channels) of silence signal (DARS grade 2) is also provided.

LT450 Multi-Format Pattern Generator

The LT450 is a DTV-compatible multi-format pattern signal generator equipped with analog component, composite and digital (HDMI) outputs. Component outputs are settable to RGB or Y, Pb Pr and on/off control of each channel is provided. Separate composite and sync outputs are also provided. The instrument also provides separate level controls for sync and video - a feature most appreciated by those testing for sync sensitivity for example.

Ideal for any application requiring a variety of analog signals, the LT450 generates the most popular test patterns including monoscope, color bar, ramp, crosshatch, multiburst, character, and permits variations on each pattern (on/off control of RGB, signal inversion, aspect ratio change, etc). Additional outputs such as DVI-I and HDMI and analog outputs such as a SCART connector can be added as options.

LT4400 Multi-Format HD/SD-SDI Sync & Pattern Generator

LIP-SYNC measurement option available!

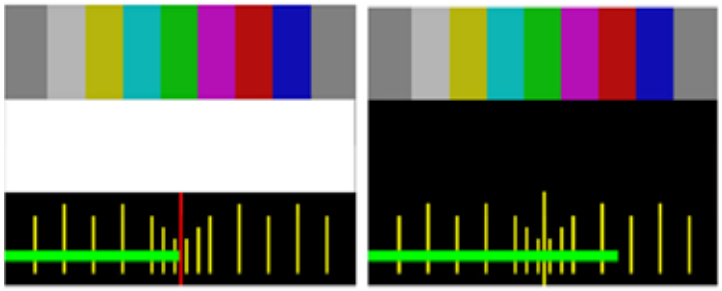
Designed for use as a master sync generator for small facilities and sub-systems, the LT4400 Multi-Format Generator is ideal for non-linear editing systems and applications where multi-format sync signals are needed.
The instrument can provide NTSC black, PAL black and HDTV tri-level sync simultaneously out of 3 pairs of independently timed black outputs.

In addition to the 6 black outputs, the LT4400 provides both SD and HD-SDI test signals. Black outputs are independently controlled (3 pairs) and can be set to black-burst (NTSC or PAL) as well as tri-level sync (HDTV). Genlock facilities are available along with a number of genlock recovery options to suit your specific system requirement.

Test patterns include color bars and check field and are moveable. A 16-character source identifier can be added to the test outputs and the instrument allows for the addition of a logo bug.

Sixteen channels of embedded audio are available along with settable tones and audio click. Optional Lip Sync pattern is available and can be used with the LV5800 and other Leader monitors to measure lip sync delays in your system.
The LT4400 can be used on the bench or in a rackmount configuration (1 RU high; half-rack wide).

LT4400 Front & Rear Panel



Lip Sync test pattern

LG3850 Digital TV Signal Generator

The LG3850-EU Digital TV Signal Generator provides RF test signals compliant with the European DVB-T terrestrial digital broadcast format. Coding and up converter are both built into one instrument. Channel frequency is settable and the RF output is variable. In addition to color bars, ramp and monoscope patterns are also provided; other patterns are available as options. USB connection to PC can facilitate stream playback (option).

Features

- Complies with DVB-T European Format.
- Modulation Options Include ATSC, ATSC-MH, DVB-T & ISDB-Tb
- Covers VHF and UHF Bands with Settable Channel Frequency.
- Settable/Variable RF Output For Sensitivity Tests
- Includes Popular Test Patterns; More Available As Options
- Presets (99) permit workflow automation – perfect for manufacturing

Support Products & Accessories

LV5800 Multi-SDI Monitor Available Accessories

LV7800-01	Remote controller for LV7800/LV5800
LR-2700A-U	Rackmount adapter (Dual)
LR-2701	Rackmount storage box
LR-2427B-U	Cabinet with handle
LC-2125A	Blank panel for dual rackmount

LV7800 Multi-SDI Rasterizer Remote Controller

LV7800-01	Remote controller for LV7800/LV5800

LV5770 Multi-SDI Monitor Available Accessories

LV7770-01	Remote controller for LV7770/LV5770
LR-2700A-U	Rackmount adapter (Dual)
LR-2701	Rackmount storage box
LR-2427B-U	Cabinet with handle
LC-2125A	Blank panel for dual rackmount

LV7770 Multi Rasterizer Remote Controller

LV7770-01	Remote controller for LV7770/LV5770

LV5330 Portable SDI Test Monitor Accessories

LV53-AD	Component/analog composite input
LV5330-OP73U	IDX battery mount (hardwired)
LV5330-OP73	IDX battery mount (pigtail)
LV5330-OP74U	Anton Bauer mount (hardwired)
LV5330-OP74	Anton Bauer mount (pigtail)
LR-2752-U	Rackmount for LV5330
LC-2130-U	Blank panel for LR-2752-U
Hood 80	Hood for LV5330
LV5330-FL	Fanless Cabinet
LC-2250-U	Carry case for the LV5330

LV5380 8-inch Multi-SDI Test Monitor

LV53-AD	Component/analog composite input
LV5380-OP73U	IDX battery Mount (hardwired)
LV5380-OP73	IDX battery Mount (pigtail)
LV5380-OP74U	Anton Bauer mount (hardwired)
LV5380-OP74	Anton Bauer mount (pigtail)
LR-2751-IU	Rackmount for LV5380
LC-2129-U	Blank panel for LR-2751-IU
LC-2151-U	Camera mounting bracket LV5380

Above : LV7800-01 Remote Controller;
LR-2700A-U Dual Rackmount and LR-2701
Rackmount Storage Box

LV5330 Shown On-Camera,
In Padded Carrying Case and Rack-Mounted (Dual).

LR-2751-IU Shown With Two LV5380s Rackmounted (Dual)

Popular Accessories

LV7330 HD/SD-SDI Rasterizer

LV7330-AD	Component/analog composite input
LR-2478	Rackmounts any two of LV7330, LT4400
LR-2481-U	Rackmount for LV7330

LT4400 Generator

LR-2477	Double rackmount adapter
LR-2478	Rackmounts any two of LV7330, LT4400
LR-2480	Rackmount adapter for LT4400

Top : LR-2478 Rackmounts 2 Units Side-By-Side
Bottom : LR-2481-U Rackmounts 1 Unit With Blank Side

AC Adaptor,
LV5330/5380, LV7330, LT4400

LC2128 Front Cover For LV5330

IDX Battery Mount Shown
see comment regarding
method of installation below

LV53-AD

Regarding LV5330 & LV5380 Battery Mounts : We have two ways of installing battery mounts for the LV5330 and LV5380. We can connect the battery mount directly (hard wired) to the instrument which means, the low battery alarm indicator would function properly. However, the battery attachment plate would no longer be field installable or field removable (installation would have to be done by us because internal hard wiring is required). We can also provide the battery attachment plate not hard wired but with an XLR pigtail so that the user would simply plug in the pigtail to the external XLR DC input of the LV5330 or LV5380. In this configuration the battery attachment plates can be installed and removed/replaced in the field by the end user (because no hard wiring is required). However, in this instance the low battery alarm indication will not function (because the unit is being powered externally). There is no charge for doing this either way. If you want the hard wired version please order OP73U (IDX) or OP74U (Anton Bauer) - the "U" denotes hard wiring. If you want the pigtail version please use OP73 (IDX) or OP74 (Anton Bauer). Pricing is the same either way.

Adding Analog Video & AudioTo SDI Monitors & Rasterizers

ADDING ANALOG A/V TO THE LV7330 : Leader's NEW LV7330-AD option is a conveniently packaged instrument that integrates perfectly with the LV7330 in rack-mount applications to provide analog video and analog audio feeds to the LV7330. A similar package, the LV53-AD is now available for the LV5330 and mounts in place of the battery on the rear of the instrument. In the photo shown below, the LV7330-AD A/D Converter/Embedder is packaged in a half-rack, 1 rack unit high instrument and can be rack-mounted next to the LV7330 or in any area where conversion and/or audio embedding is required. The LV7330-AD and LV53-AD automatically detect the analog video input format and embed the audio inputs in the SD/HD-SDI outputs. The instruments are useful for adding analog input capabilities to any SD/HD-SDI audio/video instrument or to convert analog cameras, tape decks or any professional video equipment with analog outputs to digital HD or SD-SDI.

ADDING ANALOG A/V TO THE LV5330 : Leader's NEW LV53-AD option is a conveniently packaged instrument that integrates perfectly with the LV5330 in portable applications to provide analog video and analog audio feeds to the LV5330. A similar package, the LV7330-AD is available for the LV7330 rasterizer;

Features include

- High-Quality SD/HD Audio/Video A/D Converter
- SD Component, Composite or Y/C Video In
- HD Analog Component Video Input
- Four Channel Balanced Analog Audio Input
- 3 SDI/HD-SDI w/embedded Audio Outputs
- 12 Bit Video, 24 Bit Audio A/Ds
- Automatic Multi-Standard
- External Dip Switch Configuration
- 5-18V Power

Test Monitor Products - Feature Selection Chart

	LV5800	LV7800	LV5770	LV7770	LV5980	LV5380	LV7380	LV5381	LV5382	LV5307	LV5330	LV7330
Supported Systems												
SD/HD-SDI Inputs (Max Simult.)	2(4)	2(4)	2(2)	2(2)	4(4)	2(2)	2(2)	4(4)	2(2)	1(1)	2(1)	2(1)
Dual Link	Y	Y	Y	Y	Y	Y	Y	OP	Y			
3G-SDI	OP06	OP06	Y	Y						Y		
HDMI Input									1	1		
DVB-ASI	OP04	OP04										
Composite	OP03A	OP03A	OP03A	OP03A	LV53-AD	LV53-AD				Pix only	Pix only	LV7330-AD
Display System												
Built-In Display	6,3		6,3	6,3	17	8,4		8,4	8,4	7	6,5	
Rasterizer Output	DVI-I	DVI-I	DVI-D	DVI-D			DVI-I			HDMI		DVI-I
Monitoring Modes												
Waveform/Vector	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Eye Pattern	OP02	OP02	OP09	OP09			OP02					
Picture	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
CINELITE/CINEZONE	Option	Option	Y	Y	Y	Option	Y	Y	Y	CineZone	Y	Y
5-Bar	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y
Status & Error Logs	Y	Y	Y	Y	Y	Y	Y	OP	Y		Y	Y
Embedded Audio	OP40A	OP40A	OP41-43	Y	Y	Y	Y	OP	Y	Bars Only	Y	Y
External Audio	OP40A	OP40A	OP41-43	Y			Y					2-Ch
Lip-sync	OP40A	OP40A	OP41-43	Y	LV53-AD	LV53-AD			LV53-AD	Y	LV53-AD	
Loudness	OP40A	OP40A	OP41-43	Y								
Other Features												
Built-In Generator; 3G/HD/SD-SDI										Y		
DC Powered					Y	Y	Y	Y	Y	Y	Y	Y
Tripod Mountable					Y	Y		Y	Y	Y	Y	
Handheld					Y	Y		Y	Y	Y	Y	
Rackmountable	1/2RK 3RU	1RK 2RU	1/2RK 3RU	1RK 1RU	1RK 8RU	1/2RK 4RU	1RK 1RU	1/2RK 4RU	1/2RK 4RU	1/2RK 3RU	1/2RK 3RU	1/2RK 1RU

This catalog is only a summary of our product line and it was developed as a quick update for our market in Europe. For a complete look at our products, please visit us on the web at www.LeaderEurope.com

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